

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning at line 27 on page 12 of the specification as follows:

Referring now to FIGS. 2 and 3, the pulse patterns, pattern groups and excitation waveforms may be better understood by reference to particular examples. In this regard, FIG. 2 shows randomly selected values or bits of the pattern groups comprising exemplary first and second frequency orthogonal code division multiplexed excitation waveforms 200, 202 (the infrared and red channel excitation waveforms 200, 202). As is shown in FIG. 2, the infrared channel excitation waveform 200 includes three different infrared channel pattern groups 204, which, in this example are different from one another. In other embodiments, there may be fewer or more than three infrared pattern groups 204 in the infrared channel excitation waveform 200, and in other embodiments the infrared pattern groups ~~206~~204 may be the same. Each infrared channel pattern group 204 is comprised of 4 random bits, with each bit being either 0 or +1. In other embodiments, each infrared channel pattern group 204 may be comprised of fewer or more random bits. The red channel excitation waveform 202 includes two red channel pattern groups 206, which, in this example, are the same. In other embodiments, there may be fewer or more than two red pattern groups 206 in the red channel excitation waveform 202, and in other embodiments the red pattern groups 206 may be different from each other. Each red channel pattern group 206 is comprised of 6 random bits, with each bit being either 0 or +1. In other embodiments, each red channel pattern group 206 may be comprised of fewer or more random bits.